CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NMS/CSR-04/006e/CEMENT/2016-17

Date: 11.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
*NAME OF THE WORK	:	Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	07.04.2016
PERIOD OF TESTING	:	07.04.2016 to 11.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

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T-2377

Job No.: CTCE/BBMP/NMS/CSR-04/006e/SAND-Gradation/2016-17 : 11.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*Agency : **Mr. N M Shivakumar,**
#7, 2nd block, Juganahalli, Rajajinagar,Bangalore.

*Name of Work : Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

*Reference : AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 07.04.2016

Date of Testing : 11.04.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.90	90-100	90-100	90-100	95-100
2.36	76.70	60-95	75-100	85-100	95-100
1.18	56.10	30-70	55-90	75-100	90-100
600 Micron	32.10	15-34	35-59	60-79	80-100
300 Micron	16.60	5-20	8-30	12-40	15-50
150 Micron	7.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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AE-10

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬೆ ಬೃ ಮ ಕಾ., ಬೆಂಗಳೂರು-9

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Job No.: CTCE/BBMP/NMS/CSR-04/006e/AGG/GR/2016-17 : 11.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. N M Shivakumar,**
#7, 2nd block, Juganahalli, Rajajinagar,Bangalore.

* **Name of Work** : Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore

* **Reference** : AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 07.04.2016

Date of Testing : 11.04.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.34	95-100	85-100
20	39.31	30-70	0-20
10	22.46	10-35	0-5
4.75	5.34	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/NMS /STEEL/2016-17 13.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
Name of the Work	:	Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
Date of Test	:	13.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	555	13.15	O.K	O.K

AE-10

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NMS /STEEL/2016-17 13.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
Name of the Work	:	Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
Date of Test	:	13.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	557	13.40	O.K	O.K

AE-10

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T-2377

Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 27.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as o	: 7^{th} day
Sample Received on	: 27.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2016	27.04.2016	8.225	282.6	12.56
2	20.04.2016	27.04.2016	8.369	278.6	12.38
3	20.04.2016	27.04.2016	8.412	261.2	11.61

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T-2377

Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 18.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 18.05.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2016	18.05.2016	8.145	399.6	17.76
2	20.04.2016	18.05.2016	8.297	402.2	17.88
3	20.04.2016	18.05.2016	8.336	380.4	16.91

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Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 30.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
* Compressive Strength as o	: 7^{th} day
Sample Received on	: 30.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2016	30.04.2016	8.163	259.5	11.53
2	23.04.2016	30.04.2016	8.287	277.6	12.34
3	23.04.2016	30.04.2016	8.341	280.4	12.46

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Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 21.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 21.05.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2016	21.05.2016	8.146	400.2	17.79
2	23.04.2016	21.05.2016	8.285	378.6	16.82
3	23.04.2016	21.05.2016	8.374	402.1	17.87

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Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 02.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day
Sample Received on	: 02.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2016	02.05.2016	8.156	378.5	16.82
2	25.04.2016	02.05.2016	8.298	372.1	16.54
3	25.04.2016	02.05.2016	8.341	385.2	17.12

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Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 23.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 23.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2016	23.05.2016	8.015	519.6	23.09
2	25.04.2016	23.05.2016	8.145	510.2	22.68
3	25.04.2016	23.05.2016	8.287	516.9	22.97

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T-2377

Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 04.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day
Sample Received on	: 04.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2016	04.05.2016	8.244	380.2	16.90
2	27.04.2016	04.05.2016	8.369	375.1	16.67
3	27.04.2016	04.05.2016	8.425	382.4	17.00

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NMS/CSR-04/006e/CUBE/2016-17 25.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N M Shivakumar,** #7, 2nd block, Juganahalli, Rajajinagar,Bangalore.
* Name of the work	: Construction of RCC Drain and Covering slab near Raghavendra Mata at Venkatagiriyappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VST/PR/301/2016-17 Dated: 07.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 25.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2016	25.04.2016	8.124	520.2	23.12
2	27.04.2016	25.04.2016	8.256	522.8	23.23
3	27.04.2016	25.04.2016	8.369	515.6	22.92

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH. I.A.
Chief Executive Officer

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